

IN THE CLAIMS:

Please amend the claims as follows:

1. **(Cancelled)**

2. **(Currently Amended)** A fuel cell comprising a tubular casing, an electrolyte layer received in said tubular casing, a first gas diffusion electrode completely defining a fuel gas passage and a second gas diffusion electrode completely defining an oxidizing gas passage, wherein said first and second gas diffusion electrodes interpose said electrolyte layer, wherein:

 said first and second gas diffusion electrodes each comprise a plurality of layers of material stacked in the axial direction of said tubular casing, wherein said fuel and oxidizing gas passages, which extend in the axial direction, each have a non-uniform diameter and

 said first gas diffusion electrode extends continuously along said fuel gas passage; and

 said second gas diffusion electrode extends continuously along said oxidizing gas passage, and wherein said tubular casing comprises high polymer solid electrolytic material surrounding said first and second gas diffusion electrodes, and said electrolyte layer are integgrally is formed from a same material, said same material consisting of a of said high polymer solid electrolytic material.

3. **(Previously Presented)** A fuel cell according to claim 2, wherein said tubular casing also comprises a plurality of layers of material therefore stacked in the axial direction of said tubular casing.

Claim 4. **(Cancelled).**

5. **(Currently Amended)** A fuel cell according to claim 3 [[4]], wherein said gas passages are defined by separating an interior of said tubular casing with said electrolyte layer and said gas diffusion electrodes.

Claims 6-10. **(Cancelled)**.

11. **(Previously Presented)** A fuel cell according to claim 2, wherein neighboring layers of material of said plurality of layers of material are mis-registered relative to each other to form a step in a respective one of said fuel gas passage and said oxidizing gas passage.

12. **(Previously Presented)** A fuel cell according to claim 2, wherein at least one of said fuel gas passage and said oxidizing gas passage becomes progressively narrower in a direction from an upstream end toward a downstream end.

13. **(Currently Amended)** A fuel cell comprising a tubular casing, an electrolyte layer received in said tubular casing, and a pair of gas diffusion electrodes interposing said electrolyte layer and defining a fuel gas passage and an oxidizing gas passage, respectively, wherein:

each gas diffusion electrode comprises a plurality of layers of material stacked in the axial direction of said tubular casing;

each gas diffusion electrode extends continuously along its associated gas passage; and

said tubular casing comprises high polymer solid electrolytic material surrounding said pair of gas diffusion electrodes, and said electrolyte layer are integrally formed from a same material, said same material consisting of a of said high polymer solid electrolytic material.

14. (New) The fuel cell according to claim 2, wherein the first gas diffusion electrode completely and solely defines the fuel gas passage.
15. (New) The fuel cell according to claim 2, wherein the second gas diffusion electrode completely and solely defines the oxidizing gas passage.
16. (New) The fuel cell according to claim 2, wherein the first gas diffusion electrode completely and solely defines the fuel gas passage, and wherein the second gas diffusion electrode completely and solely defines the oxidizing gas passage.
17. (New) The fuel cell according to claim 13, wherein the pair of gas diffusion electrodes interposing said electrolyte layer completely and solely define the fuel gas passage and the oxidizing gas passage, respectively.